



Cisco ME 3600X-24CX Switch Getting Started Guide

- [About this Guide, page 2](#)
- [Box Contents, page 2](#)
- [Initial Setup, page 3](#)
- [Managing the Switch through the CLI, page 6](#)
- [Installing the Switch, page 6](#)
- [Connecting to the Switch Ports, page 10](#)
- [Troubleshooting, page 11](#)
- [Obtaining Documentation and Submitting a Service Request, page 12](#)



Americas Headquarters:
Cisco Systems, Inc., 170 West Tasman Drive, San Jose, CA 95134-1706 USA

About this Guide

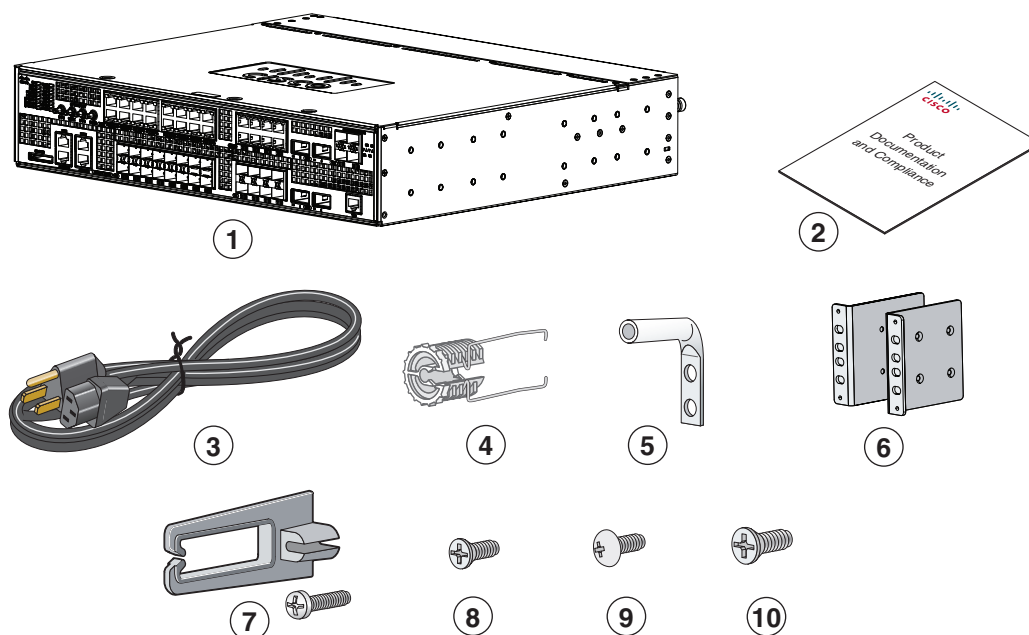
This guide provides instructions on how to install and configure your Cisco Metro Ethernet (ME) 3800X and ME 3600X switch. Also covered are switch management options, basic rack-mounting procedures, port and module connections, and troubleshooting help.

For more installation and configuration information, see the Cisco ME 3800X and ME 3600X switch documentation on Cisco.com. For system requirements, important notes, limitations, open and resolved bugs, and last-minute documentation updates, see the release notes, also on Cisco.com.

When you use the online publications, refer to the documents that match the Cisco IOS software version that is running on the switch. Look on the switch rear panel to locate the software version or enter the **show version** command from the CLI.

For translations of safety warnings that appear in this publication, review the warnings in the *Regulatory Compliance and Safety Information for the Cisco ME 3600X-24CX Switch* on Cisco.com.

Box Contents



333304

1	Cisco ME 3600X-2CX switch	6	Two 19-inch mounting brackets
2	Product documentation and compliance document	7	Cable guide and screw
3	AC power cord	8	Four number-12 pan head screws
4	Power cord bail and bushing	9	Four number-8 Phillips truss-head screws
5	Ground lug	10	Eight number-8 Phillips flat-head screws



Note

Verify that you have received these items. If any item is missing or damaged, contact your Cisco representative or reseller for instructions.

Initial Setup

You need this equipment:

- PC
- Straight-through or crossover Category 5 Ethernet cable

Step 1

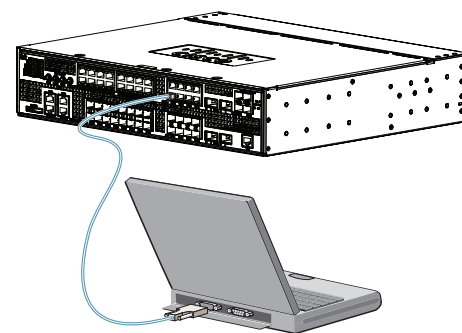
Obtain this information from your network administrator before you start the setup program:

- Switch IP address
- Subnet mask (IP netmask)
- Default gateway (router)
- Enable secret password
- Enable password
- Telnet password

Step 2

Connect the adapter cable to the console connector on the switch front panel. Connect the other end of the cable to the Ethernet port on your DHCP-enabled PC.

You must supply the console cable if you did not order one with your switch.



333305

Step 3

Start a terminal-emulation application such as Hyperterminal or ProcommPlus.

Step 4

Configure the baud rate and character format of the PC or terminal to match these console port default characteristics.

- 9600 baud
- 8 data bits
- 1 stop bit
- No parity
- None (flow control)

Step 5

Power the switch.

AC power switches: Plug the AC power cord into the switch power supply and into a grounded AC outlet. Set the power supply switch to ON.

DC power switches: See the wiring instructions in the hardware installation guide on Cisco.com.

Step 6 Approximately 30 seconds after the switch powers on, it begins the power-on self-test (POST), which can take up to 5 minutes to complete.

During POST, the System (SYST) LED blinks green.

When POST is complete, the SYTEM LED is green.

Troubleshooting:

If the SYST LED blinks green, does not turn green, or turns amber, contact your Cisco representative or reseller. The switch failed POST.

Step 7 Press **Return** or **Enter** at the prompt.

Press RETURN to get started!

Completing the Initial Configuration

Follow these steps to complete the setup program and to create the initial switch configuration.

Step 1 Enter **Yes** at these prompts:

Would you like to terminate autoinstall? [yes/no]: **yes**

Would you like to enter the initial configuration dialog? [yes/no]: **yes**

At any point you may enter a question mark '?' for help.

Use ctrl-c to abort configuration dialog at any prompt.

Default settings are in square brackets '[]'.

Basic management setup configures only enough connectivity for management of the system, extended setup will ask you to configure each interface on the system.

Would you like to enter basic management setup? [yes/no]: **yes**

Step 2 Enter a hostname for the switch, and press **Return**.

The hostname is limited to 20 characters. Do not use *-n*, where *n* is a number, as the last character in a hostname for any switch.

Enter host name [Switch]: *host_name*

Step 3 Enter an enable secret password, and press **Return**.

The password must be different from the enable secret password and can be from 1 to 25 alphanumeric characters, can start with a number, is case sensitive, allows spaces, but ignores leading spaces. The secret password is encrypted, and the enable password is in plain text.

Enter enable secret: *secret_password*

Step 4 Enter an enable password, and press **Return**.

Enter enable password: *enable_password*

Step 5 Enter a virtual terminal (Telnet) password, and press **Return**.

The password can be from 1 to 25 alphanumeric characters, is case sensitive, allows spaces, but ignores leading spaces.

Enter virtual terminal password: *terminal-password*

Step 6	<p>(Optional) Configure Simple Network Management Protocol (SNMP) by responding to the prompts. You can also configure SNMP later through the CLI. To configure SNMP later, enter no.</p> <p>Configure SNMP Network Management? [no]: no</p>	
Step 7	<p>At the prompt, enter either FastEthernet0 or the VLAN name (usually VLAN1) as the interface connected to the management network, and press Return.</p> <p>Enter interface name used to connect to the management network from the above interface summary: FastEthernet0</p>	
Step 8	<p>Enter Yes after the prompt, and then enter the switch IP address and subnet mask. Press Return.</p> <p>The IP address and subnet mask shown to the right are examples.</p>	<p>Configuring interface vlan1: Configure IP on this interface? [yes]: yes</p> <p>IP address for this interface: <i>10.4.120.106</i></p> <p>Subnet mask for this interface [255.0.0.0]: <i>255.0.0.0</i></p>
Step 9	<p>Enter N when the prompt asks if you want to enable the switch as a cluster command switch. This switch will be a standalone switch that does not support clustering.</p> <p>Would you like to enable as a cluster command switch? [yes/no]: no</p> <p>The switch displays its initial configuration, as shown on the right.</p>	<p>The following configuration command script was created:</p> <pre>hostname switch1 enable secret 5 \$1\$U1q8\$D1A/OiaEbl90WcBpd9cOn1 enable password enable_password line vty 0 15 password terminal-password no snmp-server ! no ip routing ! interface Vlan1 no shutdown ip address 10.4.120.106 255.0.0.0 ! interface FastEthernet0/1 ! interface FastEthernet0/2 ...<output abbreviated> interface FastEthernet1/0/3 ! interface GigabitEthernet0/1 ! interface GigabitEthernet0/2 ! end</pre>
Step 10	<p>These choices appear:</p> <pre>[0] Go to the IOS command prompt without saving this config. [1] Return back to the setup without saving this config. [2] Save this configuration to nvram and exit.</pre> <p>If you want to save the configuration and use it the next time the switch reboots, save it in NVRAM by selecting option 2.</p> <p>Enter your selection [2]:2</p> <p>Make your selection, and press Return.</p>	

-
- Step 11** Disconnect the switch from the PC, and install the switch in your network. See the [“Installing the Switch” section on page 6](#).
-
- Step 12** See the [“Managing the Switch through the CLI” section on page 6](#) for information about configuring and managing the switch.
-

**Note**

If you need to rerun the initial configuration dialog, see the [“Resetting the Switch to the Default Settings” section on page 12](#).

Managing the Switch through the CLI

After you install the switch in your network, you can enter Cisco IOS commands and parameters through the CLI. Access the CLI either by connecting your PC directly to the switch console port or through a Telnet session from a remote PC or workstation.

Other Management Options

You can use SNMP management applications such as CiscoWorks Small Network Management Solution (SNMS) and HP OpenView to configure and manage the switch. You also can manage it from an SNMP-compatible workstation that is running platforms such as HP OpenView or SunNet Manager.

The Cisco IE2100 Series Configuration Registrar is a network management device that works with embedded CNS agents in the switch software. You can use IE2100 to automate initial configurations and configuration updates on the switch.

See the [“Accessing Help Online” section on page 12](#) for a list of supporting documentation.

Installing the Switch

This section covers 19-inch rack-mounting. For alternate mounting procedures, see the *Cisco ME 3800X and ME 3600X Switch Hardware Installation Guide* on Cisco.com.

Equipment That You Supply

You need to supply a number-2 Phillips screwdriver to rack-mount the switch.

Before You Begin

When you determine where to install the switch, verify that these guidelines are met:

- Airflow around the switch and through the vents is unrestricted.
- Clearance to the switch front and rear panels meets these conditions:
 - You can easily see the System, MGMT, Alarm, port, and power-supply LEDs.
 - You have sufficient access to ports for cabling.

- The AC power cord can reach from the power outlet to the front-panel connector.
- Cabling is away from sources of electrical noise, such as radios, power lines, and fluorescent lighting fixtures.
- For 10/100 or 10/100/1000 ports, the cable length from a switch to an attached device cannot exceed 328 feet (100 meters).
- For cable lengths for small form-factor pluggable (SFP) modules, see the documentation that shipped with the module.
- For cable lengths for XFP modules, see documentation that shipped with the module.
- Temperature around the switch does not exceed 122°F (50°C).
- Humidity around the switch does not exceed 95 percent.
- Altitude at the installation site is not greater than 10,000 feet.

Safety Warnings

Translations of these warning statements appear in the *Regulatory Compliance and Safety Information for the Cisco ME 3600X-24CX Switch* document.



Warning

Before working on equipment that is connected to power lines, remove jewelry (including rings, necklaces, and watches). Metal objects will heat up when connected to power and ground and can cause serious burns or weld the metal object to the terminals. Statement 43



Warning

Do not stack the chassis on any other equipment. If the chassis falls, it can cause severe bodily injury and equipment damage. Statement 48



Warning

To prevent bodily injury when mounting or servicing this unit in a rack, you must take special precautions to ensure that the system remains stable. The following guidelines are provided to ensure your safety:

- This unit should be mounted at the bottom of the rack if it is the only unit in the rack.
- When mounting this unit in a partially filled rack, load the rack from the bottom to the top with the heaviest component at the bottom of the rack.
- If the rack is provided with stabilizing devices, install the stabilizers before mounting or servicing the unit in the rack. Statement 1006



Warning

Only trained and qualified personnel should be allowed to install, replace, or service this equipment. Statement 1030

**Warning**

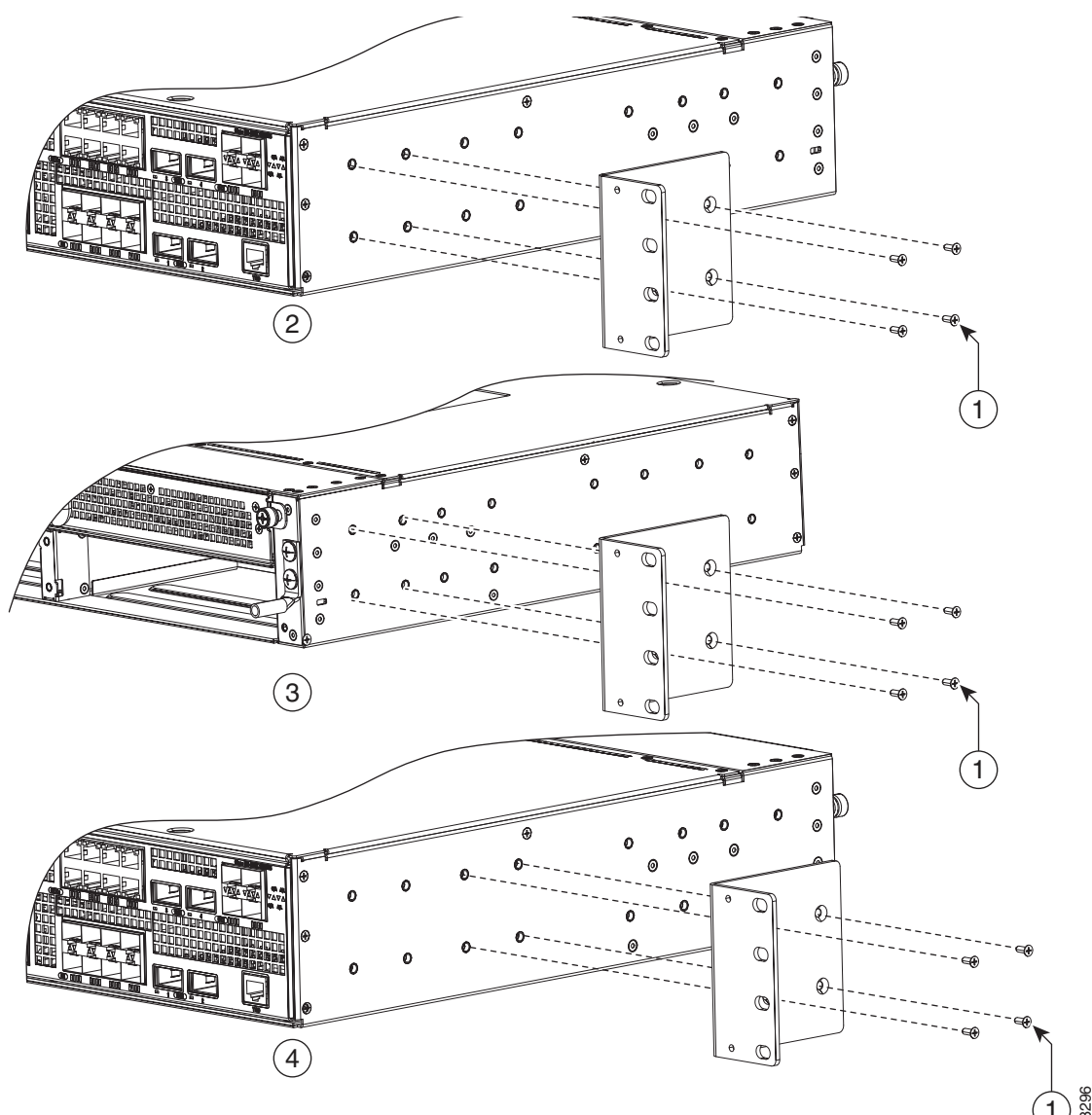
To prevent the system from overheating, do not operate it in an area that exceeds the maximum recommended ambient temperature of: 122°F (50°C) Statement 1047

**Warning**

Installation of the equipment must comply with local and national electrical codes. Statement 1074

Attaching the Brackets

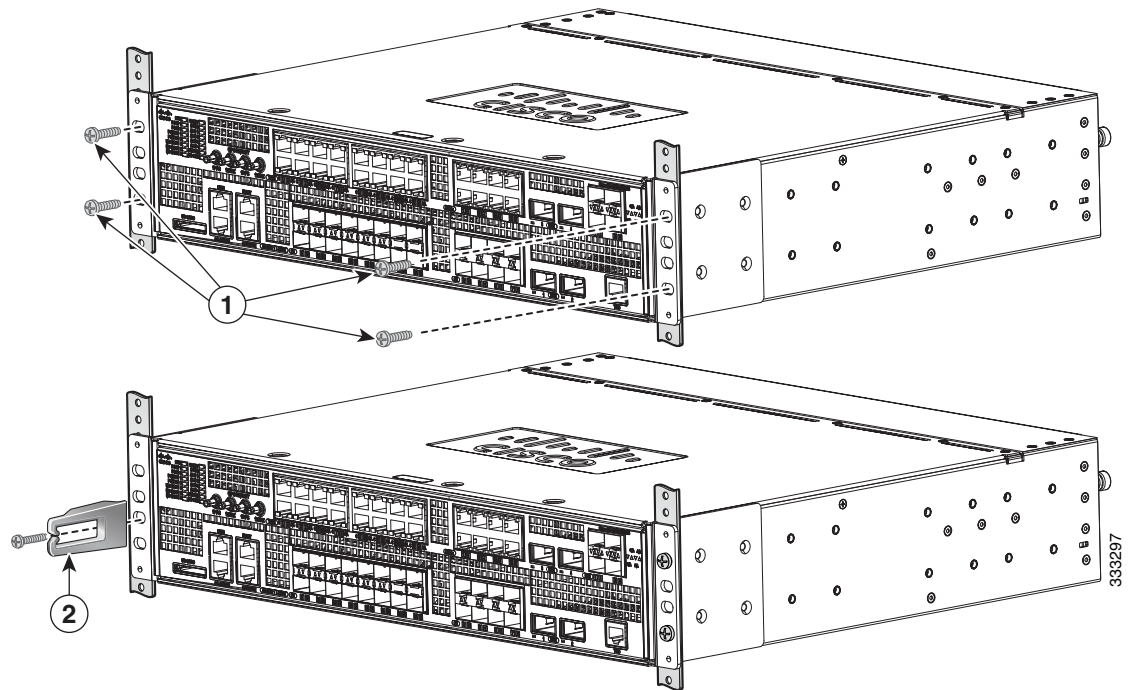
Use four Phillips flat-head screws to attach the long side of the brackets to the switches in one of mounting positions.



1	Phillips flat-head screws	3	Rear-mounting position
2	Front-mounting position	4	Mid-rack mounting position

Rack-Mount the Switch

Use the black Phillips machine screw to attach the cable guide to the left or right bracket and the supplied screws to attach the brackets to the rack.



1	Black Phillips machine screw	2	Cable guide and screw
---	------------------------------	---	-----------------------

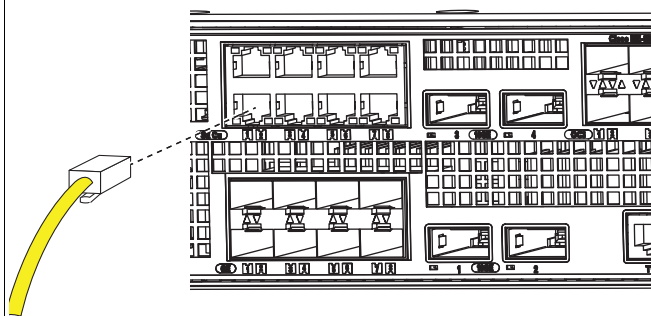
Connecting to the Switch Ports

This section describes how to connect to the fixed switch ports and to the SFP module ports. The switch in the illustrations might be different from your switch, but the instructions apply to all Cisco ME 3800X and ME 3600X switches.

Connect to 10/100 or 10/100/1000 Ports

- Step 1** When you connect to servers, workstations, customer-premises equipment (CPE), wireless access points, and routers, connect a straight-through, twisted four-pair, Category 5 cable to a switch 10/100 or 10/100/1000 port.

Use a crossover, twisted four-pair, Category 5 cable when you connect to other switches, hubs, or repeaters.



- Step 2** Connect the other end of the cable to a connector on the other device.



Note

The automatic medium-dependent interface crossover (auto-MDIX) feature is enabled by default. The switch detects the required cable type for copper Ethernet connections and configures the interfaces accordingly. You can use either a crossover or a straight-through cable for connections to a copper 10/100, 10/100/1000, or 1000BASE-T SFP module port on the switch, regardless of the type of device on the other end of the connection.

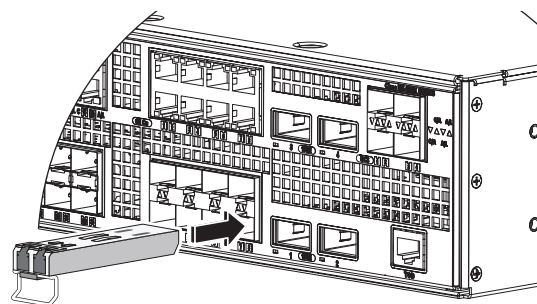
Install the XFP Modules and Connect to the Ports



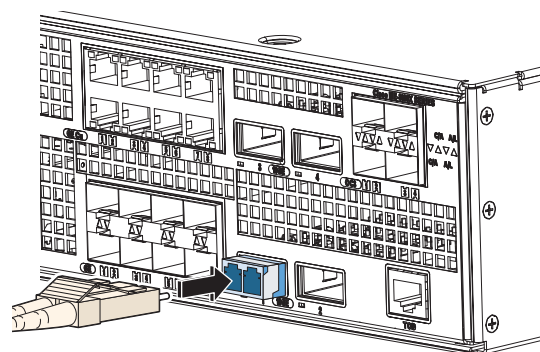
Caution

To prevent damage to the XFP module, make sure that you verify the proper orientation of the module by consulting the module documentation before you install it.

- Step 1** Grasp the XFP module on the sides, and insert it into the switch slot until you feel the connector snap into place.



- Step 2** Connect an appropriate cable to the XFP module port. Connect the other cable end into the other device.



For a list of supported modules, see the release notes on Cisco.com. For detailed instructions on installing, removing, and connecting to XFP modules, see the XFP module documentation.



Caution

Removing and installing an XFP module can shorten its useful life. Do not remove and insert SFP modules more often than is absolutely necessary.

For instructions on using the XFP patch cable, see the “Switch Installation” chapter of the hardware installation guide.

Verify Port Connectivity

After you connect to the switch port, the port LED turns amber while the switch establishes a link. This takes about 30 seconds. After the switch and the target device establish a link, the port LED turns green. If the LED is off, the target device might not be turned on, there might be a cable problem, or there might be a problem with the adapter installed in the target device. See the [“Troubleshooting” section on page 11](#) for information about online assistance.

Troubleshooting

Initial Configuration Setup

If you have problems running the initial configuration dialog:

- Did you verify that POST ran successfully before running the initial configuration dialog? If not, make sure that only the System LED is green before pressing the Break key or entering a break character.
- Did you press the Break key while the switch was still running POST? If yes, wait until POST completes. Restart the switch. Wait until POST completes. Confirm that the System LED is green. Enter **reload** to reinstall the flash memory.

- Did you wait 30 seconds after you connected the switch and the PC before you entered the IP address in your browser?
If not, wait 30 seconds, re-enter **10.0.0.1** in the browser, and press **Enter**.
- Did you forget your password?
See the “Recovering from a Lost or Forgotten Password” section in the Troubleshooting appendix of the software configuration guide.

Resetting the Switch to the Default Settings



Caution

Resetting the switch deletes the configuration and restarts the switch.

To reset the switch:

- At the `switch#` prompt, enter **enable**, and press **Return or Enter**.
- At the `switch#` prompt, enter **setup**, and press **Return or Enter**.

The switch displays the prompt to run the initial configuration dialog. See the “Initial Setup” section on [page 3](#) to re-enter the configuration information and to set up your switch.

Accessing Help Online

First look for a solution to your problem in the troubleshooting section of the hardware installation guide or the software configuration guide on Cisco.com. You can also access the Cisco Technical Support and Documentation website for a list of known hardware problems and extensive troubleshooting documentation.

Obtaining Documentation and Submitting a Service Request

For information on obtaining documentation, submitting a service request, and gathering additional information, see the monthly *What’s New in Cisco Product Documentation*, which also lists all new and revised Cisco technical documentation, at:

<http://www.cisco.com/en/US/docs/general/whatsnew/whatsnew.html>

Subscribe to the *What’s New in Cisco Product Documentation* as a Really Simple Syndication (RSS) feed and set content to be delivered directly to your desktop using a reader application. The RSS feeds are a free service and Cisco currently supports RSS version 2.0.

For More Information

For more information about the switch, see these documents on Cisco.com:

- *Cisco ME 3600X-24CX Switch Hardware Installation Guide*
- *Regulatory Compliance and Safety Information for the Cisco ME 3600X-24CX Switch*
- *Release Notes for the Cisco ME 3600X-24CX Switch*

- *Cisco ME 3800X and ME 3600X Switch Software Configuration Guide*
 - *Cisco ME 3800X and ME 3600X Switch Command Reference*
 - *Cisco ME 3800X and ME 3600X Switch System Message Guide*
-

Cisco and the Cisco logo are trademarks or registered trademarks of Cisco and/or its affiliates in the U.S. and other countries. To view a list of Cisco trademarks, go to this URL: www.cisco.com/go/trademarks. Third-party trademarks mentioned are the property of their respective owners. The use of the word partner does not imply a partnership relationship between Cisco and any other company. (1110R)

Any Internet Protocol (IP) addresses used in this document are not intended to be actual addresses. Any examples, command display output, and figures included in the document are shown for illustrative purposes only. Any use of actual IP addresses in illustrative content is unintentional and coincidental.

© 2010–2012 Cisco Systems, Inc. All rights reserved.

